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July 22, 2003

Dale Olson
U.S. Patent and Trademark Office
2231 Crystal Drive
Suite 910
Arlington, VA 22202

VIA FEDERAL EXPRESS

U.S. Patent Application Serial No. 09/399,003
Title: POLYMERASE ENHANCING FACTOR (PEF)
EXTRACTS PEF PRPTEIN AND METHODS
FOR PURIFYING AND IDENTIFYING
Inventors: Holly H. HOGREFE et al.
Filed: September 20, 1999
Our Reference: 4121.0116-02000

Dear Mr. Olson:

Following your request by telephone on July 22, 2003, we enclose a substitute copy of page 46 of U.S. Application No. 09/399,003, which is identical to page 43 of U.S. Application 08/957,709, to which U.S. Application No. 09/399,003 claims benefit of priority.

If you have any questions, please contact us.

With best regards,

Sincerely,

A handwritten signature in black ink, appearing to read 'Clifford E. Ford', written over a horizontal line.

Clifford E. Ford

RWM/CEF/nyf
Enclosure

p45
 phage1
 ECOLI
 HAEIN
 Scerevisiae
 guine
 tomato
 variola
 ORF2
 Human
 Rat
 EIAV
 consensus

120 VERT E F V I A S I I I N D A N G R I T I I EV
 101 V T I S K C A C A V S I T T I N D E F L A D S B I S P I S R Q
 108 T P I O P E F I A S I N V P S Q A L F N I E D F L A D S B I S P I S R Q
 108 K L E V D E I A C A V F P S Q A L F N I E D F O O E S B I S P I S K Q
 104 E A I K G D R V A Q L I E S T D D A C E V V D S E G A R A I G P S T A N N
 104 E N I V I D E I A Q I I F S E V E I I N E E K C I D E S N S H G S L S M
 127 E N I V I D E I A Q I I N S I T E L E E Q D D S I V S I F G S T A V V
 104 E N I T I D E I A Q I I V C I Y T E E K E Q S M S I D S D A F G S T L L R
 104 E A I K G D R I A Q L I C E I I S C A Q E N C A N I D S I F G S T S N
 121 E A I K G D R I A Q L I C E I I F Y T E E E E Q A L D E S I S F G S T K N
 160 E A I K G D R I A Q L I C E I I V E E E E Q T A N E S I S F G S T K N
 108 I K E I F S C F Q I I I Q - H H S N S R O P D E N K I S E D P F G S T I F W V E N I Q E A D E N H M T S P K I L A R N Y K I P L T V A K Q I T O E C P H C T K Q G S P A C Q M
 201 f l k G u l i a Q i l f r i l p e i v l d t d g g g i g a t g

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